

Name: _____

Date: _____

Math Journal

Module 1

Lessons 1 - 16

Read:

Farmer Jim keeps 12 hens in every coop. If Farmer Jim has 20 coops, how many hens does he have in all? If every hen lays 9 eggs on Monday, how many eggs will Farmer Jim collect on Monday? Explain your reasoning using words, numbers, or pictures.

Draw:

Explain your reasoning using numbers or pictures.

Write: Explain your reasoning using words.

Read:

A school district ordered 247 boxes of pencils. Each box contains 100 pencils. If the pencils are to be shared evenly among 10 classrooms, how many pencils will each class receive? Draw a place value chart to show your thinking.

Draw:

Draw a place value chart to show your thinking.

Write:

Read:

Jack and Kevin are creating a mosaic for art class by using fragments of broken tiles. They want the mosaic to have 100 sections. If each section requires 31.5 tiles, how many tiles will they need to complete the mosaic? Explain your reasoning with a place value chart.

Draw:

Explain your reasoning with a place value chart.

Write:

Read:

Below is a place value chart. It has a set of column headings based on metric length related to our place value chart, designating one meter as the base unit, or the ones place.

Use your meter strip to show and explain to your partner the lengths that relate to the tenths, hundredths, and thousandths places.

(Move through the tenths, hundredths, and thousandths)

Draw:

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
1000 meters kilometer	100 meters (hectometer)	10 meters (dekameter)	1 meter	$\frac{1}{10}$ meter (decimeter)	$\frac{1}{100}$ meter centimeter	$\frac{1}{1,000}$ meter millimeter

Write: Explain to your partner lengths that relate to the tens, hundreds, and thousands places.

Read:

Jordan measures a desk at 200 cm. James measures the same desk in millimeters, and Amy measures the same desk in meters. What is James' measurement in millimeters? What is Amy's measurement in meters? Show your thinking using a place value chart or an equation with exponents.

Draw:

Show your thinking using a place value chart or an equation with exponents.

Write:

Read:

Ms. Meyer measured the edge of her dining table to the hundredths of a meter. The edge of the table measured 32.15 meters. Write her measurement in word form, unit form, and expanded form using fractions and decimals.

Draw:**Write:**

Read:

Craig, Randy, Charlie, and Sam ran in a 5K race on Saturday. They were the top 4 finishers. Here are their race times:

Craig: 25.9 minutes Randy: 32.2 minutes

Charlie: 32.28 minutes Sam: 25.85 minutes

Who won first place? Who won second place? Third? Fourth?

Draw:**Write:**

Read:

Organic whole-wheat flour sells in bags weighing 2.915 kilograms.

How much flour is this when rounded to the nearest tenth?

How much flour is this when rounded to the nearest one?

Draw:

Use a place value chart and number line to explain your thinking.

Write:

Read:

Ten baseballs weigh 1,417.4 grams. About how much does 1 baseball weigh? Round your answer to the nearest tenth of a gram. Round your answer to the nearest gram. Which answer would you give if someone asked, “About how much does a baseball weigh?” Explain your choice.

Draw:**Write:**

Read:

At the 2012 London Olympics, Michael Phelps won the gold medal in the men's 100-meter butterfly. He swam the first 50 meters in 26.96 seconds. The second 50 meters took him 25.39 seconds. What was his total time?

Draw:**Write:**

Read:

After school, Marcus ran 3.2 km and Cindy ran 1.95 km. Who ran farther? How much farther?

Draw:**Write:**

Read:

Patty buys 7 juice boxes a month for lunch. If one juice box costs \$2.79, how much money does Patty spend on juice each month? Use an area model to solve.

Draw:

Use an area model to solve.

Write:

Read:

Louis buys 4 chocolates. Each chocolate costs \$2.35. Louis multiplies 4×235 and gets 940. Place the decimal to show the cost of the chocolates and explain your reasoning using words, numbers, and pictures.

Draw:

Explain your reasoning using numbers and pictures.

Write: Explain your reasoning using words.

Read:

A bag of potato chips contains 0.96 grams of sodium. If the bag is split into 8 equal servings, how many grams of sodium will each serving contain?

Draw:**Write:**

Read:

Jose bought a bag of 6 oranges for \$2.82. He also bought 5 pineapples. He gave the cashier \$20 and received \$1.43 change. How much did each pineapple cost?

Draw:**Write:**

Read:

Jesse and three friends buy snacks for a hike. They buy trail mix for \$5.42, apples for \$2.55, and granola bars for \$3.39. If the four friends split the cost of the snacks equally, how much should each friend pay?

Draw:**Write:**
